

Attorney Docket No. 87082/AJA

Customer No. 01333

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Inventor(s):

Hwei-Ling Yau, et al.

Group Art Unit: 1794

Examiner: Betelhem

Shewareged

INKJET RECORDING
ELEMENT AND METHOD

Serial No.: 10/795,836

Filed: March 08, 2004

Commissioner for Patents

Alexandria, VA 22313-1450

Sir:

DECLARATION UNDER RULE 131

We, **Hwei-Ling Yau** and **Wendy S. Krzemien**, state that we are the joint inventors of the claimed subject matter of the above-captioned patent application, herein referred to as the invention.

All obviousness rejections set forth in the outstanding Office action are based on Gallo et al, US 2003/0107636 as the primary reference, which reference was published June 12, 2003.

Prior to June 12, 2003, and at the time the invention occurred, we were both employees of the Eastman Kodak Company in Rochester, New York. The invention was conceived of and actually reduced to practice in the United States of America, prior to June 12, 2003. This is demonstrated by the attached Exhibits A, B, C and D.

The attached Exhibits A, B, and C are pages from the laboratory notebook of co-inventor, Wendy S. Krzemien, which pages are dated prior to June 12, 2003, and witnessed. Exhibit A, notebook page 131, discusses the preparation of samples with fusible coatings for testing.

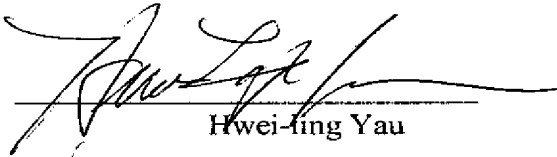
Exhibit B, notebook page 160, describes coating set "3165" which describes the coating of fusible coated samples that correspond to many of the examples in the present patent application. Such samples were sent immediately

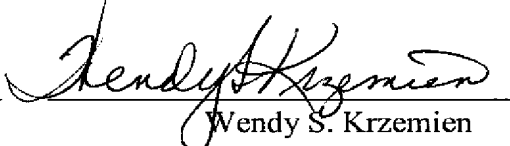
for swelling test typically within a day of coating and were sent for incubation and print quality, the results of which are reported in tabular Exhibit D, dated prior to June 12, 2003.

Exhibit C, notebook page 165, describes coating set "3200" which describes the coating of fusible coated samples that correspond to many of the examples in the present patent application. Such samples were sent immediately for swelling test typically within a day of coating and were sent for incubation and print quality, the results of which are reported in tabular Exhibit D, dated prior to June 12, 2003.

Exhibit D is a tabulation of the results of testing of data sets "3165" and "3200", dated prior to June 12, 2003. For convenience, the corresponding Example numbers in the application tables at pages 17 and 19 of the application have been added to the data lines of Exhibit D in circles where appropriate, so that the Examiner can verify that the values for the data in the samples of these exhibits correspond to the Examples in the application, and thus the invention results were appreciated and in the possession of the inventors prior to June 12, 2003.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true. These statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 21 APR. 09 
Hwei-fing Yau

Date: 16 APR 09 
Wendy S. Krzemien

1873

1963

10	3000.0 Emerald(B914), 753 nm, California SL 600.0 W-320 40.0 Zanyl FSN	DE010318BA Wlco FAC-0029	51.25% 70.0% 50.0%	5.00	505.42 94.54 70.50	-2.98
11	3000.0 Emerald(B914), 750 nm, California SL 600.0 W-320 40.0 Phosor 1-L4	DE010318BA Wlco BASF	51.25% 33.75% 69.0%	5.00	70.10 21.35 0.99	-3.79
12	3000.0 Emerald(B914), 750 nm, California SL 600.0 W-320 40.0 Zanyl FSN	DE010318BA Wlco FAC-0029	51.25% 33.75% 50.0%	5.00	78.19 21.24 1.20	-3.25
13	3000.0 Emerald(B914), 753 nm, California SL 500.0 W-320 100.0 MICRO40 (new) 40.0 Zanyl FSN	DE010318BA Wlco Midstream FAC-0029	51.25% 33.75% 40.0% 50.0%	5.00	78.19 17.80 3.00 1.20	-3.81
14	3000.0 Emerald(B914), 753 nm, California SL 600.0 W-320 100.0 MICRO40 (new) 40.0 Zanyl FSN	DE010318BA Wlco Midstream FAC-0029	51.25% 33.75% 40.0% 50.0%	5.00	78.19 17.80 3.00 1.20	-3.81
15	3000.0 Emerald(B914), 753 nm, California SL 500.0 W-320 100.0 W-1729 40.0 Zanyl FSN	DE010318BA Wlco Midstream FAC-0029	51.25% 33.75% 40.0% 50.0%	5.00	78.19 17.80 4.00 1.20	-2.81
16	3000.0 Emerald(B914), 749 nm, California SL 600.0 W-320 40.0 Zanyl FSN	DE010318BA Wlco FAC-0029	50.41% 34.70% 50.0%	5.00	71.41 21.35 1.20	-2.02
17	3000.0 Emerald(B914), 742 nm, California SL 600.0 W-320 40.0 Zanyl FSN	DE010318BA Wlco FAC-0029	51.00% 33.70% 50.0%	5.00	70.48 1.20 1.20	-2.98
18	3000.0 Emerald(B914), 730 nm, California SL 600.0 W-320 40.0 Zanyl FSN	DE010318BA Wlco FAC-0029	50.00% 32.70% 50.0%	5.00	74.56 80.65 1.20	-0.21
19	3000.0 Emerald(B914), 613 nm, California SL 600.0 W-320 40.0 Zanyl FSN	CO0107-418 Wlco FAC-0029	46.00% 39.70% 50.0%	5.00	75.34 19.94 1.20	-0.48
20	2700.0 G4E2(S020), 748 nm, California SL 600.0 W-320 40.0 Zanyl FSN	CC0107-038 Wlco FAC-0029	44.20% 39.00% 50.0%	5.00	75.48 16.80 1.20	-0.47
21	3000.0 Emerald(B914), 676 nm, California SL 600.0 W-320 40.0 Zanyl FSN	CC0107-448 Wlco FAC-0029	46.00% 33.70% 50.0%	5.00	67.40 21.35 1.20	-5.64
22	3000.0 Emerald(B914), 640 nm, California SL 600.0 W-320 40.0 Zanyl FSN	CO0107-038 Wlco FAC-0029	46.00% 33.70% 50.0%	5.00	73.77 21.35 1.20	-0.34

	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100									
Cumulative 0.05% / 10000%	10	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104	108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	
Days at 0.05% / 10000%	0.10	0.12	0.16	0.20	0.24	0.28	0.32	0.36	0.40	0.44	0.48	0.52	0.56	0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00	1.04	1.08	1.12	1.16	1.20	1.24	1.28	1.32	1.36	1.40	1.44	1.48	1.52	1.56	1.60	1.64	1.68	1.72	1.76	1.80	1.84	1.88	1.92	1.96	2.00	
Cumulative 0.1% / 10000%	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Days at 0.1% / 10000%	0.10	0.12	0.16	0.20	0.24	0.28	0.32	0.36	0.40	0.44	0.48	0.52	0.56	0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00	1.04	1.08	1.12	1.16	1.20	1.24	1.28	1.32	1.36	1.40	1.44	1.48	1.52	1.56	1.60	1.64	1.68	1.72	1.76	1.80	1.84	1.88	1.92	1.96	2.00	
Cumulative 0.5% / 10000%	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Days at 0.5% / 10000%	0.10	0.12	0.16	0.20	0.24	0.28	0.32	0.36	0.40	0.44	0.48	0.52	0.56	0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00	1.04	1.08	1.12	1.16	1.20	1.24	1.28	1.32	1.36	1.40	1.44	1.48	1.52	1.56	1.60	1.64	1.68	1.72	1.76	1.80	1.84	1.88	1.92	1.96	2.00	

- (1) Print CC0027-127 (K4) and CC0027-105 (K1) on 5S1873-10 --> -22 from Canon S750 printer, fuse and send for dark keeping 1W/38C/90%RH.
- (2) Print CC0027-127 (K4) and CC0027-105 (K1) on 5S1873-10 ----> -22 from Canon S750 printer, fuse and send for dark keeping 1W/38C/80%RH.
- (3) for 5S1873-10 --> -22, fuse at the following condition using 1-inch samples:
300F/0.5 ips/60psi
280F/0.5 ips/60psi
280F/0.5 ips/30psi
and if 280F/0.5 ips/30psi show haziness, fuse another set at 280F/0.3 psi/30 psi.
- (4) Ask Butch to load CC0027-105-K1-->K4 in bk, cyan, magenta, yellow cartridges of Epson 880 print print skull picture on 5S1873-10, fuse and check on density in Dmax area. If density is up in 3.0 range, print on -11 to -22.
- (5) repeat (4) using CC0027-127 inks.

1. The following information is being provided to you for your information only. It is not intended to be used for any other purpose.

KP 15226-6/00

Signature

Witness

The foregoing disclosed to me on

Notebook No.

Date

Problem:

205196

EASTMAN KODAK COMPANY

3165

Exp. Date:
 Safety:
 Charge number:
 Support: 8971-77 & Cayuse (Day/Night support)
 Plastic hardware

Exp. Date	Material	Comp. (g/g)	Wet Load
1	250.0 Gd-4 100.0 Xd-1 400.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
2	250.0 Gd-4 100.0 Xd-1 400.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
3	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
4	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
5	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
6	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
7	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
8	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
9	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00

Exp. Date	Material	Comp. (g/g)	Wet Load
10	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
11	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
12	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
13	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
14	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
15	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
16	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
17	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
18	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
19	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00

Exp. Date	Material	Comp. (g/g)	Wet Load
20	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
21	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
22	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
23	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
24	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
25	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
26	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
27	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
28	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00

1000 = 380C/90% 1WK 500 4/10
2000 = 380C/80% 1WK
3000 = 1WK 5ppm Ozone Chamber
4000 = 1WK H1D
100 = Canon 10-2200
200 = Epson 1280 CC0250-15B

Exp. Date:
 Safety:
 Charge number:
 Support: 8971-77 & Cayuse (Day/Night support)
 Plastic hardware

Exp. Date	Material	Comp. (g/g)	Wet Load
1	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
2	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
3	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
4	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
5	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
6	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
7	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
8	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00
9	200.0 Gd-4 100.0 Xd-1 300.0 W-213 6.0 DVS-1 6.0 100	11.80% 14.80% 30.00% 1.80% 10.00%	7.00

KP 15226-6/00

Signature

The foregoing disclosed to me on

Witness

Exhibit C

RESEARCH / DEVELOPMENT
EASTMAN KODAK COMPANYNotebook No. CC 0027
Date: [REDACTED]
PAGE 165

Item:

205191

3200

Item No.	Composition (g/g)	Material	Weight	Load
1	200.0 Gd-4 100.0 Xa-20 500.0 W-213 6.0 BVSM 6.0 IOD	Gd-4008 Wtco HAR-3179 FAC-0555	12.00%	8.00
2	200.0 Gd-4 100.0 Xa-20 500.0 W-213 6.0 BVSM 6.0 IOD	Gd-4008 Wtco HAR-3179 FAC-0555	12.00%	8.00
3	400.0 Gd-4 100.0 Xa-20 300.0 W-320 6.0 BVSM 6.0 IOD	Gd-4008 Wtco HAR-3179 FAC-0555	12.00%	8.00
4	200.0 Gd-4 100.0 Xa-20 300.0 W-320 6.0 BVSM 6.0 IOD	Gd-4008 Wtco HAR-3179 FAC-0555	12.00%	8.00
5	400.0 Gd-4 100.0 Xa-20 300.0 W-320 6.0 BVSM 6.0 IOD	Gd-4008 Wtco HAR-3179 FAC-0555	12.00%	8.00
6	200.0 Gd-4 100.0 Xa-20 300.0 W-320 6.0 BVSM 6.0 IOD	Gd-4008 Wtco HAR-3179 FAC-0555	12.00%	8.00
7	400.0 Gd-4 100.0 Xa-20 300.0 W-320 6.0 BVSM 6.0 IOD	Gd-4008 Wtco HAR-3179 FAC-0555	12.00%	8.00
8	200.0 Gd-4 100.0 Xa-20 300.0 W-320 6.0 BVSM 6.0 IOD	Gd-4008 Wtco HAR-3179 FAC-0555	12.00%	8.00
9	200.0 Gd-4 100.0 Xa-20 300.0 W-320 6.0 BVSM 6.0 IOD	Gd-4008 Wtco HAR-3179 FAC-0555	12.00%	8.00
10	400.0 PVA (GH-20) 100.0 Xa-20 100.0 W-320 6.0 DHD 6.0 IOD	Hippox Ghosel Wtco FAC-0555	11.67%	8.00
11	400.0 PVA (GH-20) 100.0 Xa-20 300.0 W-320 40.0 DHD 6.0 IOD	Hippox Ghosel Wtco FAC-0555	11.67%	8.00
12	200.0 PVA (GH-20) 100.0 Xa-20 200.0 W-320 6.0 DHD 6.0 IOD	Hippox Ghosel Wtco FAC-0555	11.67%	8.00
13	400.0 PVA (GH-20) 100.0 Xa-20 300.0 W-320 6.0 DHD 6.0 IOD	Hippox Ghosel Wtco FAC-0555	11.67%	8.00
14	200.0 PVA-EO (WO-320) 100.0 Xa-20 400.0 W-213 30.0 DHD 6.0 IOD	Hippox Ghosel Wtco FAC-0555	9.89%	8.00
15	200.0 PVA-EO (WO-320) 100.0 Xa-20 500.0 W-213 30.0 DHD 6.0 IOD	Hippox Ghosel Wtco FAC-0555	9.89%	8.00

W-2200 Canon Prints
1) Skull image - done
2) Dark Keeping
1000 = 1w 38°C / 90% RH 4/15
2000 = 1w 38°C / 80% RH 4/15
100 = W-2200 Canon
3) Drain Haze on Dark Keep samples
4) RSK 1w 50°C / 50% RH 200 = Send 5/5
1w 45°C / 50% RH
print on Canon 2200 w/
Skull image

Haze Measurements to Gary Rakes
measure 3 Repeats not 5 (#)

3210 info

5226-6/00

Signature

Witness

The foregoing disclosed to me on

Exhibit D

59-3165	Sub Layer (mg/102)	Material source	Feasible Layer (mg/102)	Material source	Ctg Quality	swell of bottom layer (ml)	swell of bottom layer (mm)	wt of water being absorbed by 1 flz of coating	swell of water/dry layer	cracks	Image quality Epson 820	stain resistance 5 min. Ponceau red	visual test 6.16 mm
1	230.0 Gel-4 100.0 XcDy 450.0 W-213 6.0 BVSM 6.0 10G	Gel-9606 Wico HAR-3179 FAC-0555	380.0 Emilen (P55), 753 nm, Calypso 575.0 W-320 25.0 GP-50-A(modified dimethyl silico) 20.0 Zonyl FSN	COO125-76 Wico Genesee Polymer FAC-0029	some cracks not very obvious	0.28	7.112	0.65	0.816	1	almost no bleed	no stain very faint haze	fair
2	225.0 Gel-4 100.0 XcDy 475.0 W-213 6.0 BVSM 6.0 10G	Gel-9606 Wico HAR-3179 FAC-0555	as O1		no cracks some air bubbles	0.2	6.08	0.47	0.883	-1	no bleed	no stain very faint haze	fair
3	200.0 Gel-4 100.0 XcDy 500.0 W-213 6.0 BVSM 6.0 10G	Gel-9606 Wico HAR-3179 FAC-0555	as O1		no cracks some air bubbles	0.14	3.566	0.33	0.468	-3	almost no bleed	no stain very faint haze	fair
4	200.0 Gel-4 100.0 XcDy 500.0 W-213 13.0 BVSM 6.0 10G	Gel-9606 Wico HAR-3179 FAC-0555	as O1		no cracks some air bubbles	0.17	4.338	0.40	0.496	-1	no bleed	no stain slight haze	fair
5	300.0 Gel-4 500.0 W-213 6.0 BVSM 6.0 10G	Gel-9606 Wico HAR-3179 FAC-0555	as O1		no cracks some air bubbles	0.16	4.064	0.37	0.460	-1	very slight bleed	no stain slight haze	
6	250.0 Gel-4 550.0 W-213 6.0 BVSM 6.0 10G	Gel-9606 Wico HAR-3179 FAC-0555	as O1		no cracks some air bubbles	0.28	5.842	0.54	0.670	-1	very slight bleed	no stain slight haze	
7	200.0 Gel-4 600.0 W-213 6.0 BVSM 6.0 10G	Gel-9606 Wico HAR-3179 FAC-0555	as O1		no cracks some air bubbles	0.44	11.178	1.03	1.283		very slight bleed	no stain slight haze	
8	200.0 PVA-EO (WO-320) 100.0 XcDy 500.0 W-213 20.0 DHD 6.0 10G	Wico FAC-0555	as O1		appears to be flow after coating	0.23	6.842	0.64	0.870	-1	very slight bleed some small cracks harder than gel	light stain hazy	
9	250.0 PVA-EO (WO-320) 100.0 XcDy 450.0 W-213 20.0 DHD 6.0 10G	Wico FAC-0555	as O1		appears to be flow after coating	0.23	5.942	0.64	0.670	-1	very slight bleed some small cracks slightly harder than gel	light stain hazy	
10	300.0 PVA-EO (WO-320) 100.0 XcDy 400.0 W-213 20.0 DHD 6.0 10G	Wico FAC-0555	as O1		some cracks not very obvious	0.41	10.414	0.96	1.196	1	very slight bleed lots of small cracks	light stain hazy	
11	300.0 PVA-EO (WO-320) 500.0 W-213 20.0 DHD 6.0 10G	Wico FAC-0555	as O1		cracks not very obvious	0.3	7.82	0.70	0.874	1	very slight bleed lots of small cracks	light stain hazy	
12	250.0 PVA-EO (WO-320) 550.0 W-213 20.0 DHD 6.0 10G	Wico FAC-0555	as O1		appears to be flow after coating	0.27	6.858	0.63	0.787		very slight bleed some small cracks	light stain hazy	
13	200.0 PVA-EO (WO-320) 600.0 W-213 20.0 DHD 6.0 10G	Wico FAC-0555	as O1		appears to be flow after coating	0.26	6.604	0.61	0.786		very slight bleed some small cracks	very light stain hazy	
14	300.0 Gel-5 500.0 W-213 6.0 BVSM 6.0 10G	Gel-55 Wico HAR-3179 FAC-0555	as O1		some cracks	0.4	10.16	0.93	1.196	1	very slight bleed some small cracks	very light stain hazy	fair
15	250.0 Gel-5 550.0 W-213 6.0 BVSM 6.0 10G	Gel-55 Wico HAR-3179 FAC-0555	as O1		very mild cracks air bubbles	0.24	6.096	0.66	0.700	1	slight bleed	very light stain hazy	fair
16	200.0 Gel-5 600.0 W-213 6.0 BVSM 6.0 10G	Gel-55 Wico HAR-3179 FAC-0555	as O1		some air bubbles no cracks	0.19	4.826	0.44	0.664	-1	slight bleed some crack on sides	almost no stain hazy	fair
17	200.0 Gel-5 100.0 XcDy 500.0 W-213 6.0 BVSM 6.0 10G	Gel-55 Wico HAR-3179 FAC-0555	as O1		cracks not obvious air bubbles	0.3	7.62	0.70	0.874	1	slight bleed some cracks on sides	almost no stain hazy	
18	200.0 Gel-5 100.0 XcDy 500.0 W-213 10.0 BVSM 6.0 10G	Gel-55 Wico HAR-3179 FAC-0555	as O1		air bubbles no cracks	0.14	3.556	0.39	0.406	-1	slight bleed some crack on sides	almost no stain hazy	fair
59-3280	Bottom Layer (mg/102)	Material source	Top Layer (mg/102)	Material source	Ctg Quality						Image quality Epson 820	stain resistance 5 min. Ponceau red	
1	no bottom layer		2830.0 Emilen (P55), 753 nm, Calypso 575.0 W-320 50.0 GP-50-A(modified dimethyl silico) 20.0 Zonyl FSN	COO125-76 Wico Genesee Polymer FAC-0029							good very little bleeding	no stain very slight haze	poor (delaminated)
2	700.0 Gel-4 100.0 XcDy 600.0 W-213 6.0 BVSM 6.0 10G	Gel-9606 Wico HAR-3179 FAC-0555	as O1			0.29	7.112	0.65	0.816	-1	slight bleeding cracks in lused image	no stain very slight haze	
3	200.0 Gel-4 100.0 XcDy 500.0 W-320 6.0 BVSM 6.0 10G	Gel-9606 Wico HAR-3179 FAC-0555	as O1		cracks	0.22	5.688	0.51	0.841	1	slight bleeding hazy coating flaked off easily before lusing	no stain very slight haze fused sample is slightly haze	
6	400.0 Gel-4 400.0 W-213 6.0 BVSM 6.0 10G	Gel-9606 Wico HAR-3179 FAC-0555	as O1		cracks	0.32	8.128	0.75	0.933	1	slight bleeding cracks	no stain very slight haze	
7	200.0 Gel-4 600.0 W-213 6.0 BVSM 6.0 10G	Gel-9606 Wico HAR-3179 FAC-0555	as O1		fine cracks not obvious	0.16	4.064	0.37	0.466	1	slight bleeding cracks in high ink areas	no stain very slight haze	
8	400.0 Gel-4 400.0 W-320	Gel-9606 Wico	as O1		cracks	0.77	19.558	1.80	2.245	1	some bleeding cracks	no stain very slight haze	

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